

CLAIMS

1. A digital information product comprising:  
a computer-readable medium; and  
stored on the computer-readable medium, computer program instructions  
5 defining a software system that produces software code based on a set of functional requirements and design parameters provided by a programmer.
2. The digital information product according to claim 1, wherein the computer  
program instructions, when executed, allow the programmer to define a design matrix  
10 describing a relation between the set of functional requirements and the design parameters.
3. The digital information product according to claim 2, wherein the computer  
program instructions, when executed, allow a programmer to manipulate the design  
15 matrix into lower triangular form.
4. The digital information product according to claim 2, wherein the computer  
program instructions, when executed, allow a programmer to determine a decoupled  
design matrix.
- 20 5. The digital information product according to claim 2, wherein the computer  
program instructions, when executed, allow a programmer to determine an uncoupled  
design matrix.
- 25 6. A method for producing a software system, the method comprising:  
defining a design matrix describing a relation between functional requirements of  
the software system and design parameters; and  
generating software code based on the design matrix.
- 30 7. The method according to claim 6, further comprising a step of constructing  
functions using diagonal elements of the design matrix.